

## Curriculum Vitae

Name: **ANIRBAN ROY**  
Degree: **M.Sc. (Agriculture) in Genetics and Plant Breeding,  
Ph.D.(Ag.), submitted**  
Sex: **Male**  
Age: **28+**  
Date of Birth: **30 Dec, 1993**  
Nationality: **Indian**  
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**Research Interest:** Allele mining for developing climate resilient variety; Mutation breeding, Marker assisted Plant Breeding and Comparative genomics

### 1. Educational qualification

Year of Passing	Degree obtained	Board/University	Details of Qualification
2015	B.Sc. (Ag.) Hons.	Uttar Banga Krishi Viswavidyalaya	1st division Overall Grade: 8.32/10.00 (OGPA)
2017	M.Sc. (Ag.) in Genetics and Plant Breeding	Bidhan Chandra Krishi Viswavidyalaya	8.75/10 (OGPA)
2017- 2022	Ph.D.(Ag.) in Genetics and Plant Breeding	Bidhan Chandra Krishi Viswavidyalaya	Thesis Submitted

### 2. Examination Passed

- Combined Entrance Examination for Agriculture Biotechnology conducted by JNU, New Delhi (All India Rank Gen: 8, OBC: 1), 2015.

- All India Entrance Examinations for Agriculture, ICAR, Plant Science (All India Rank: 62), 2015.
- UET/PET-2015 Conducted by Institute of Agricultural Sciences, BHU: AIR Rank: 59, OBC:29

3. **Other Academic accomplishment**

- ASRB NET (ICAR): 2017 (63.11 %) in Genetics and Plant Breeding
- ASRB NET (ICAR): 2018 (62.22 %) in Genetics and Plant Breeding
- GATE 2018 (Conducted by IIT-Guwahati, Rank: 596; 39 %) in Life Science
- GATE 2019 (Conducted by IIT –Madras, Rank: 311; 51.33%) in Life Science

4. **Fellowships and awards:**

- Merit scholarship during B.Sc. (Ag.) Hons. (2011-2015) MHRD, GOI
- Amul Vidya Bhushan Award (2011) by AMUL
- Hundred fellowship programme in INTERDROUGHT-V, Hyderabad organized by ICRISAT in 2017
- Junior Research Fellowship (2017) DAE-BRNS, BARC, Mumbai, GOI
- Selected in National Fellowship-OBC sponsored by University Grant Commission, New Delhi. (1<sup>st</sup> April 2018 Awarded)

5. **National Seminar and Symposium**

- National Elocution Competition, NAAS & BCKV, 2014
- Attended International Symposium on “Insight to plant biology in the modern era”, 2017 and presented paper at Bose Institute, Kolkata, India.
- Attended Life Science Symposium-2018 organized by DAE-BARC, Mumbai.

6. **International Seminar and Symposium attended**

- Inter Drought- V, ICRISAT, Hyderabad, 2017
- International Conference on Pulses as the Climate Smart Crops: Challenges and Opportunities, Bhopal, M.P., India, 2020

7. **Training attended**

- Attended Next Generation Sequencing Data analysis organized by Distributed Informatics Centre, DBT-Assam Agriculture University-DBT-2019
- Genomics Assisted Breeding for Crop Improvement, NAHEP, CAAST, Division of Genetics, IARI, New Delhi, 2019
- Recent Advances on Mutation Breeding for Crop Improvement, BARC-BCKV, Kalyani, W.B, 2020
- CareerEX Data Science by Panasonic, 2020, (Virtual)
- Data Science by IEEE Computer Society and Computer Society of India, 2020, (Virtual)
- Optimization & Statistical Models and Tools (OSMT-2020), (Virtual)

- Introductory Courses on Research Methodology & Biostatistics by Indian Council of Medical Research, 2020 (Virtual)
- Online Certificate course on Data Science and Machine Learning by National Institute of Electronics and Information Technology, Chennai, 2020-21(Virtual)

#### 8. Research Experience

- Two years' experience as a JRF in a DAE-BCKV Collaborative project entitled "Identification of Lentil mutant resistance against.....AHAS inhibitor..." funded by DAE-Board of Research in Nuclear Science, Mumbai. (02.07-2017-26.09.2019)

#### 9. Published Nucleotide sequence at NCBI

- *Lens culinaris* subsp. *culinaris* cultivar Ranjan dehydration responsive element binding protein (DREB2A) mRNA, complete cds (**GenBank: MK900691.1**)
- *Athelia rolfsii* isolate BCKV\_gen internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence (**GenBank: MN833953.1**)
- *Alternaria alternata* isolate BCKV-Kalyani internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence (**GenBank: MN336221.1**)
- *Lens culinaris* subsp. *culinaris* protein-L-isoaspartate O-methyltransferase mRNA, complete cds (**GeneBank: MK936066.1**)

#### 10. Research Publications

- Screening lentil (*Lens culinaris* Medik) Genotypes for Resistance against Pre-Flowering Blight and Identification of Pathogen by ITS Sequencing (**Anirban Roy**, Camellia Das, Moutusi Sarkar, Sourav Mondal, Shamba Ganguly, Sumit Kumar Murmu, Birendra Nath Panja, Rajib Nath, Kuldeep Tripathi, Prabir Kumar Bhattacharyya, Somnath Bhattacharyya *Legume Research* Article No. LR-4248. ISSN: 0250-5371, **NAAS:6.53, IF: 0.589**)
- Variation in P-acquisition ability and acid phosphatase activity at the early vegetative stage of lentil and their validation on P-deficiency field (Shamba Ganguly, **Anirban Roy** · Sumit K. Murmu, Diana Sagolsem, Moutushi Sarkar, Shubhrajyoti Sen, Dibakar Das, Camellia Das, Prabir Chakraborty, Prabir K. Bhattacharyya, Rajib Nath, Kuldeep Tripathi, Ashutosh Sarker, Somnath Bhattacharyya) *Acta Physiologiae Plantarum* (2021) 43:109, **NAAS:7.76, IF: 2.354**)
- Perfect PCR based co-dominant marker for low grain-arsenic accumulation genotyping in rice (Dibakar Das, Poulomi Sen, Shampa Purkayastha, Arup Kumar Saha, **Anirban Roy**, Pooja Rai, Shubhrajyoti Sen, Shoumik Saha, Bijoy Kumar Senapati, Tirthankar Biswas, Somnath Bhattacharyya) *Ecotoxicology and Environmental Safety* 212 (2021)

111960, NAAS:10.87, IF: 6.291

- Identification and analysis of low light tolerant rice genotypes in field conditions and their SSR-based diversity in various abiotic stress tolerant lines (Sebantee Ganguly, Shoumik Saha, SathishVangaru, Shampa Purkayastha, Dibakar Das, Arup K. Saha, **Anirban Roy**, Subhadeep Das, Prabir K. Bhattacharyya, Subhra Mukherjee and Somnath Bhattacharyya) *Journal of Genetics*, ISSN: 0022- 1333, NAAS: 6.99, IF: 1.166

#### **11. Review article Published**

- Kumari VV, **Roy A**, Vijayan R, Banerjee P, Verma VC, Nalia A, Pramanik M, Mukherjee B, Ghosh A, Reja MH, Chandran MAS, Nath R, Skalicky M, Brestic M, Hossain A. Drought and Heat Stress in Cool-Season Food Legumes in Sub-Tropical Regions: Consequences, Adaptation, and Mitigation Strategies. *Plants*. 2021; 10(6):1038. <https://doi.org/10.3390/plants10061038>, NAAS: 8.76, IF:3.935

#### **12. Book Chapter Published**

- **Roy A.**, Bhattacharyya S. (2020) Breeding and QTL Mapping for  $\gamma$ -Oryzanol and Nutrition Content in Rice. In: Roychoudhury A. (eds) Rice Research for Quality Improvement: Genomics and Genetic Engineering. *Springer*, Singapore. [https://doi.org/10.1007/978-981-15-5337-0\\_20](https://doi.org/10.1007/978-981-15-5337-0_20)
- **Roy A.**, Purkayastha S., Bhattacharyya S. (2021) Advancement in Molecular and Fast Breeding Programs for Climate-Resilient Agriculture Practices. In: Husen A. (eds) Harsh Environment and Plant Resilience. *Springer*, Cham. [https://doi.org/10.1007/978-3-030-65912-7\\_4](https://doi.org/10.1007/978-3-030-65912-7_4)
- Sarkar T., **Roy A.**, Choudhary S.M., Sarkar S.K. (2021) Impact of Climate Change and Adaptation Strategies for Fruit Crops. In: Islam M.N., van Amstel A. (eds) India: Climate Change Impacts, Mitigation and Adaptation in Developing Countries. Springer Climate. *Springer*, Cham. [https://doi.org/10.1007/978-3-030-67865-4\\_4](https://doi.org/10.1007/978-3-030-67865-4_4)

#### **13. Popular Article**

- Roy A, Widening base of less diverse crops. (2019) Agriculture & Food: e-Newsletter:1(3), Volume-1-Issue 3-2019

#### **14. Basic skills:**

- Phenotyping for abiotic stress tolerance, handling of biometrical and bioinformatics tools, PCR and qRT-PCR, Cloning, Molecular markers and their analysis, Stress Physiology and Biochemistry for developing easy selection tools

#### **15. Extracurricular Activities: Learning Nature, Human, Science**